

Nicholas Miklaucic

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Availability: July – December 2021

www.nicholas-miklaucic.com <https://github.com/nicholas-miklaucic>

Education

Northeastern University, Boston, MA

Sep 2019 – Present

Khoury College of Computer Sciences, Honors Program

May 2023

Candidate for a Bachelor of Science degree in Data Science & Behavioral Neuroscience

GPA 3.69/4.00

CS GPA 3.93/4.00

Coursework: Artificial Intelligence, Information Presentation & Visualization, Database Design, Neurobiology, Clinical Neuroanatomy, Organic Chemistry I

Phillips Academy Andover, Andover, MA

Sep 2015 – May 2019

Coursework: Computational Neuroscience, Machine Learning, Linear Algebra, Multivariable Calculus

Computer Knowledge

Languages *Proficient:* Python, Rust, HTML/CSS/JS

Familiar: Haskell, Emacs Lisp, Java, C++

Libraries numpy, pandas, matplotlib, seaborn, scipy, scikit_learn, PyMC, Django, Bootstrap, jQuery

Software Jupyter, LaTeX, Tableau, Excel, Linux

Projects

Phillips Academy Capture the Flag

May 2018 – May 2019

- Led team behind yearly cybersecurity competition for high schoolers from around the world
- Managed sponsor relationships to maintain prize pool worth thousands of dollars
- Wrote over 20 original programming and cybersecurity problems using Python and Rust
- Administrated the server and website, handling thousands of daily page hits during the competition

Scarlet

Jan 2018 – Mar 2018

- Developed open-source Rust library (4000+ downloads, 7000+ LOC) to model color for programmers
- Extensively researched psychophysics and color theory to ensure state-of-the-art accuracy
- Created API that allows any programmer to leverage the latest in color theory without intensive background

Experience

Khoury College of Computer Sciences, Northeastern University

Sep 2020 – Present

Course Assistant, Fundamentals of Computer Science I

- Hold weekly office hours and answer student questions
- Grade exams and weekly programming assignments, giving detailed written feedback
- Co-ran exam review sessions with hundreds of participants, answering student questions and working examples

Ethics Institute, Northeastern University

Research Assistant

Apr 2020 – Present

- Visualize data to communicate research findings in upcoming publication (second author)
- Interpret and create statistics from psychology research experiments using Python, numpy, pandas, and seaborn
- Analyzed and compiled statistics from existing research for published literature review

LeanTaaS

Data Science Intern

Jul 2019 – Sep 2019

- Created visualizations in Python allowing users to quickly diagnose and correct modeling errors in clinic simulations
- Created novel statistical measures to aggregate complex model diagnostics into a single easy-to-interpret value

Software Engineering Intern

Jun 2018 – Sep 2018

- Prototyped a data collection web application (Django, Bootstrap, HTML/CSS/JS) now in use around the US
- Output from data collection used to increase efficiency and patient care quality for over 100 doctors and 1000 patients across the US

References available upon request